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Substitute of form 1449/PTO

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INFORMATION DISCLOSURE STATEMENT BY
APPLICANT

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Application Number	Not Yet Known
Filing Date	April 15, 2004
First Name Inventor	Joel Q. Xue
Group Art Unit	Not Yet Known
Examiner Name	Not Yet Known
Attorney Docket Number	039199-9551-00

Sheet 1 of 1

U.S. PATENT DOCUMENTS

Examiner Initials	U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document
JP	6,668,189	Kaiser et al.	12/23/2003
JP	6,453,191	Krishnamachari	9/17/2002
JP	6,169,919	Nearing et al.	1/2/2001
JP	5,935,082	Albrecht et al.	8/10/1999
JP	5,560,370	Verrier et al.	10/1/1996
JP	5,265,617	Verrier et al.	11/30/1993
JP	5,148,812	Verrier et al.	9/22/1992
JP	4,802,491	Cohen et al.	2/7/1989

FOREIGN PATENT DOCUMENTS

Examiner Initials	Country Code	Foreign Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Translation	English Abstract

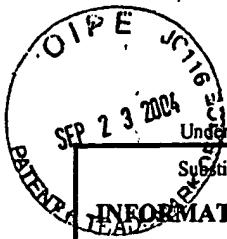
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Examiner Signature	<i>Jessica J. Reidel</i>	Date Considered	11-14-05
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number	10/825,495
Filing Date	April 15, 2004
First Name Inventor	Joel Q. Xue
Group Art Unit	
Examiner Name	

(use as many sheets as necessary)

Sheet	1	of	7	Attorney Docket Number	140821IT (5024-00121)
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U.S. PATENT DOCUMENTS

Examiner Initials	U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document
JP	4,589,420	Adams et al.	5/20/1986
	4,457,315	Bennish	7/3/1984
	5,201,321	Fulton	4/13/1993
	4,854,327	Kunig	8/8/1989
	5,025,795	Kunig	6/25/1991
	4,989,610	Patton et al.	2/5/1991
	4,977,899	Digby et al.	12/18/1990
	4,958,641	Digby et al.	9/25/1990
	4,928,690	Heilman et al.	5/29/1990
	4,860,762	Heumann et al.	8/29/1989
	4,679,144	Cox et al.	7/7/1987
	4,432,375	Angel et al.	2/21/1984
	4,422,459	Simson	12/27/1983
	4,202,340	Langer et al.	5/13/1980
	5,117,834	Kroll et al.	6/2/1992
	4,492,235	Sitrick	1/8/1985
	4,458,692	Simson	7/10/1984
✓	4,458,691	Netravali	7/10/1984

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Jessica L. Reidel

Date Considered

11-15-05

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(use as many sheets as necessary)		Attorney Docket Number	140821IT (5024-00121)
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U.S. PATENT DOCUMENTS				
Examiner Initials		U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document
al		4,974,598	John	12/4/1990
		5,117,833	Albert et al.	6/2/1992
		5,000,189	Throne et al.	3/19/1991
		4,519,395	Hrushesky	5/28/1985
		4,136,690	Anderson et al.	1/30/1979
		5,570,696	Arnold et al.	11/5/1996
		5,819,741	Karlsson et al.	10/13/1998
		5,343,870	Gallant et al.	9/6/1994
		6,453,191	Krishnamachari	9/17/2002
		4,802,491	Cohen et al.	2/7/1989
		5,935,082	Albrecht et al.	8/10/1999
		5,148,812	Verrier et al.	9/22/1992
		5,265,617	Verrier et al.	11/30/1993
		5,437,285	Verrier et al.	8/1/1995
		5,560,370	Verrier et al.	10/1/1996
		5,921,940	Verrier et al.	7/13/1999
		6,169,919	Nearing et al.	1/2/2001
		4,896,677	Kaneko et al.	1/30/1990
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		5,042,497	Shapland	8/27/1991
✓		5,188,116	Pommrehn et al.	2/23/1993

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		First Name Inventor	Joel Q. Xue
		Group Art Unit	
		Examiner Name	
Sheet 3 of 7	Attorney Docket Number	140821IT (5024-00121)	

U.S. PATENT DOCUMENTS				
Examiner Initials		U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document
②		5,277,190	Moulton	1/11/1994
		3,554,187	Glassner et al.	1/12/1971
		4,802,491	Cohen et al.	2/7/1989
		4,924,875	Chamoun	5/15/1990
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		3,902,479	Chaumet	9/2/1975
		4,170,992	Dillman	10/16/1979
		4,603,703	McGill et al.	8/5/1986
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		3,759,248	Valiquette	9/18/1973
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		4,951,680	Kirk et al.	8/28/1990
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		4,616,659	Prezas et al.	10/14/1986
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		3,821,948	King	7/2/1974
		3,952,731	Worstencroft	4/27/1976
		4,181,135	Andresen et al.	1/1/1980
↓		4,417,306	Citroni et al.	11/22/1983

Examiner Signature	<i>Jessica J. Reidel</i>	Date Considered	11-15-05
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		Group Art Unit	
		Examiner Name	
Sheet 4 of 7	Attorney Docket Number	140821TT (5024-00121)	

U.S. PATENT DOCUMENTS				
Examiner Initials		U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document
Ⓚ		5,423,878	Franz	6/13/1995
		5,253,650	Wada	10/19/1993
		4,124,894	Vick et al.	11/7/1978
		4,979,510	Franz et al.	12/25/1990
		5,020,540	Chamoun	6/4/1991
		4,583,553	Shah et al.	4/22/1986
		4,680,708	Ambos et al.	7/14/1987
		4,796,638	Sasaki	1/10/1989
		5,092,341	Kelen	3/3/1992
		5,109,862	Kelen et al.	5/5/1992
		5,570,696	Arnold et al.	11/5/1996
		5,323,783	Henkin et al.	6/28/1994
		5,234,404	Tuttle et al.	8/10/1993
✓		5,010,888	Jadvar et al.	4/30/1991

Examiner Signature	<i>Julia J. Rudel</i>	Date Considered	11-15-05
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		Filing Date	April 15, 2004
		First Name Inventor	Joel Q. Xue
		Group Art Unit	
		Examiner Name	
Sheet 5 of 7	Attorney Docket Number	140821IT (5024-00121)	

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Country Code	Foreign Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Translation	English Abstract
Ⓚ	DE	2604460	Michael S. Lampadius	8/11/1977		
	DE	3303104	Belorussky Nauchno-Issledovatel'sky Institut Kardiologii	8/2/1984		
	DE	4024360	Transformatoren und Rontgenwerk GmbH	3/21/1991		
	EP	0080821	Datamedix, Inc.	6/8/1983		
	FR	2539978	Belorussky Nauchno-Issledovatel'sky Institut Kardiologii	8/3/1984		
	UK	2070871	Anderson et al.	9/9/1981		
↓	WO	WO81/02832	Datamedix, Inc.	10/15/1981		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Examiner Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.	
Ⓚ	Speranza et al., 'Beat-to-beat measurement and analysis of the R-T interval in 24 h ECG Holter recordings,' Med and Biol Eng & Comput, 1993, 31, pp. 487-494.	
	Narayanaswamy et al., 'Selective beat signal averaging and spectral analysis of beat intervals to determine the mechanisms of premature ventricular contractions,' University of Oklahoma Health Sciences Center, May 1993, pp. 81-84.	
	Laks et al., 'ECG computer program developed for a retrospective and prospective study of the Pardee T wave,' Department of Medicine, UCLA School of Medicine, Harbor-UCLA Medical Center, Torrance, CA, 1992, pp. 365-368.	
	Makarov et al., 'Holter monitoring in the long QT syndrome of children and adolescents,' Cor Vasa, 1990, 32(6), pp. 474-483.	
↓	Navarro-Lopez et al., 'Isolated T wave alternans elicited by hypocalcemia in dogs,' Electrocardiology, 1978, 11(2), pp. 103-108.	

Examiner Signature	Jessica J. Reide	Date Considered	11-15-05
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		Group Art Unit	
		Examiner Name	
Sheet 6 of 7	Attorney Docket Number	140821IT (5024-00121)	

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Examiner Initials		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
Q		Little et al., 'Torsade de Pointes and T-U wave alternans associated with arsenic poisoning,' Pace, 1990, 13, pp. 164-170.
		Weintraub et al., 'The congenital long QT syndromes in childhood,' Journal of the American College of Cardiology, September 1990, 16(3), pp. 674-680.
		Bibler et al., 'Recurrent ventricular tachycardia due to pentamidine-induced cardiotoxicity,' Chest, December 1988, 94(6), pp. 1303-1306.
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		Surawicz, 'ST-segment, T-wave, and U-wave changes during myocardial ischemia and after myocardial infarction,' Canadian Journal of Cardiology, Supplement A, July 1986, pp. 71A-84A.
		Stroobandt et al., 'Simultaneous recording of atrial and ventricular monophasic action potentials: monophasic action potential duration during atrial pacing, ventricular pacing, and ventricular fibrillation,' Pace, July-August 1985, 8, pp. 502-511.
		Sharma et al., 'Romano-Ward prolonged QT syndrome with intermittent T wave alternans and atrioventricular block,' American Heart Journal, 1981, pp. 500-501.
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		Nearing et al., 'Personal computer system for tracking cardiac vulnerability by complex demodulation of the T wave,' American Physiological Society, 1993, pp. 2606-2612.
		Joyal et al., 'ST-segment alternans during percutaneous transluminal coronary angioplasty,' Division of Cardiology, Department of Medicine, University of Florida and the Veterans Administration Medical Center, June 1984, pp. 915-916.
		Schwartz et al., 'Electrical alternation of the T-wave: clinical and experimental evidence of its relationship with the sympathetic nervous system and with the long Q-T syndrome,' American Heart Journal, January 1975, 89(1), pp. 45-50.
		Schwartz, 'Idiopathic long QT syndrome: progress and questions,' American Heart Journal, February 1985, 109(2), pp. 399-411.
✓		Verrier et al., 'Electrophysiologic basis for T wave alternans as an index of vulnerability to ventricular fibrillation,' Journal of Cardiovascular Electrophysiology, May 1994, 5(5), pp. 445-461.

Examiner Signature	<i>Jessica J. Reed</i>	Date Considered	11-15-05
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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
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Ⓚ		Verrier et al., 'Behavioral states and sudden cardiac death,' Pace, September 1992, 15, pp. 1387-1393.
↓		Turitto et al., 'Alternans of the ST segment in variant angina,' Chest, March 1988, 93(3), pp. 587-591.
↓		Ring et al., 'Exercise-induced ST segment alternans,' American Heart Journal, May 1986, 111(5), pp. 1009-1011.
↓		Wayne et al., 'Exercise-induced ST segment alternans,' Chest, May 1983, 83(5), pp. 824-825.
↓		Verrier et al., 'Ambulatory electrocardiogram-based tracking of T wave alternans in postmyocardial infarction patients to assess risk of cardiac arrest or arrhythmic death,' Journal of Cardiovascular Electrophysiology, July 2003, 14(7), pp. 705-711.

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